

PATENT

Attorney Docket No.014643-009031
A-72015/GKS/THR

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
LONBERG, *et al.*

Examiner: A.M.S. Wehbe

Art Unit: 1632

Serial No. 09/724,965

Filed: November 28, 2000

For: *Transgenic Non-Human Animals
for Producing Heterologous
Antibodies*

CERTIFICATE OF MAILING

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Signed: Traci H. Ropp
Traci H. Ropp

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the reference cited on the accompanying form PTO/SB/8A. Copies of the references are enclosed.

None of the foregoing references are believed to disclose the invention as claimed. Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission that the reference constitutes prior art against the invention claimed in the above-identified application.

Serial No. 10/356,320
Filing Date: January 30, 2003

Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

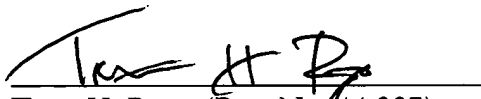
Pursuant to 37 C.F.R. §1.97(c), enclosed is a check in the amount of \$180.00 as set forth in 37 C.F.R. §1.17(p). The Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment Deposit Account No. 50-2319 (Our Order No. A-72015/GKS/THR [455675-80]).

Respectfully submitted,

DORSEY & WHITNEY LLP

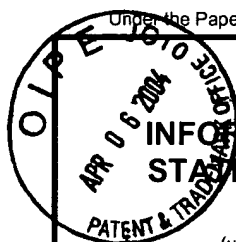
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Customer Number 32940

Attachments : Form PTO/SB/8A, Substitute for form 1449
32 cited references
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 Substitute for form 1449A/PTO
(Modified)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet			1		of		2	
<div style="float: right; border: 1px solid black; padding: 5px;"> Complete if Known </div>								
Application Number				09/724,965				
Filing Date				November 28, 2000				
First Named Inventor				LONBERG				
Group Art Unit				1632				
Examiner Name				A.M.S. Wehbe				
Attorney Docket Number				A-72015/GKS/ THR (455675-080))				

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	ER	5,545,806	08-13-1996	Lonberg, et al	
	ES	5,569,825	10-29-1996	Lonberg, et al	
	ET	5,591,669	01-07-1997	Krimpenfort et al	
	EU	5,612,205	03-18-1997	Kay et al.	
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	EY	5,789,650	08-04-1998	Lonberg, et al	
	EZ	5,814,318	09-29-1998	Lonberg, et al	
	FA	5,939,598	08-17-1999	Kucherlapati et al	
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	FC	6,075,181	06-13-2000	Kucherlapati et al	
	FD	6,150,584	11-21-2000	Kucherlapati et al	
	FE	6,162,963	12-19-2000	Kucherlapati et al	
	FF	6,114,598	09-05-2000	Kucherlapati et al	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code ² Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	FG	WO 92/03917	03-19-1992	GenPharm Intl.		
	FH	WO 96/33735	10-31-1996	GenPharm Intl		
	FI	WO 97/13852	04-17-1997	GenPharm Intl		
	FJ	WO 98/24884	06-11-1998	GenPharm Intl		
	FK	WO 98/24893	06-11-1998	Abgenix		
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	FM	Harding FA, Lonberg N., "Class switching in human immunoglobulin transgenic mice", <i>Ann N Y Acad Sci.</i> , 764: 536-46 (1995).	

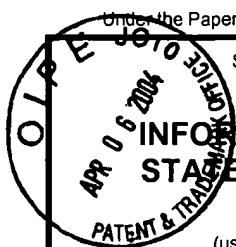
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Substitute for form 1449A/PTO
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STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	2	of	2	Application Number	09/724,965
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Complete if Known

Filing Date	November 28, 2000
First Named Inventor	LONBERG
Group Art Unit	1632
Examiner Name	A.M.S. Wehbe
Attorney Docket Number	A-72015/GKS/ THR (455675-080))

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	FN	Jakobovits A, et al., "Production of antigen-specific human antibodies from mice engineered with human heavy and light chain YACs", <i>Ann N Y Acad Sci.</i> : 764:525-35 (1995)	
	FO	Jakobovits A., "Production of fully human antibodies by transgenic mice", <i>Curr Opin Biotechnol.</i> : 6(5):561-6 (1995).	
	FP	Jakobovits A, "YAC vectors. Humanizing the mouse genome", <i>Curr Biol.</i> , 4(8):761-3 (1994)	
	FQ	Lonberg N., et al., "Antigen-specific human antibodies from mice comprising four distinct genetic modifications", <i>Nature</i> . 368(6474): 856-859 (1994)	
	FR	Lonberg N, Huszar D., "Human antibodies from transgenic mice", <i>Int Rev Immunol.</i> 13(1): 65-93 (1995).	
	FS	Storb, U. et al., "Expression of microinjected immunoglobulin kappa gene in transgenic mice", <i>Banbury Reports</i> , 20:197-207 (1985)	
	FT	Takeda, S. et al, "Deletion of the immunoglobulin kappa chain intron enhancer abolishes kappa chain gene rearrangement <i>in cis</i> but not lambda chain gene rearrangement <i>in trans</i> ", <i>EMBO J.</i> , 12(6): 2329-2336 (1993)	
	FU	Taylor, L.D. et al, "A transgenic mouse that expresses a diversity of human sequence heavy and light chain immunoglobulins", <i>Nucl. Acids Res.</i> , 20:6287-6295, (1992)	
	FV	Taylor, L.D. et al, "Human immunoglobulin transgenes undergo rearrangement, somatic mutation and class switching in mice that lack endogenous IgM", <i>Intl. Immunol.</i> , 6(4):579-591 (1994)	
	FW	Tualllon, N. et al., "Human immunoglobulin heavy-chain minilocus recombination in transgenic mice: gene-segment use in mu and gamma transcripts " <i>PNAS</i> , 90:3720-3724	
	FX	Zou, Y-R., et al., "Gene targeting in the Ig kappa locus: Efficient generation of lambda chain-expressing B cells, independent of gene rearrangements in Ig kappa", <i>EMBO J.</i> , 12(3):811-820 (1993)	

Examiner Signature		Date Considered	
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST-16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

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